

## **Four Corners Air Quality Task Force Work Group Conference Call Notes**

### **Monitoring Work Group ; Conference Call ; 12/19/06**

#### **Participants**

Mary Lou Asbury, LWV / Cortez / Montezuma; Judy Schuenemeyer, Cortez LWV; Sylvia Oliva, Mesa Verde National Park; Koren Nydick, Mountain Studies Institute; Kandy Le Moine, Volunteer Coordinator, Farmington Museum; Theodore Mueller, Ret. Professor Adams State University – Aztec; Eric Janes, Retired Federal Employee, USDI; Mark Sather, US Environmental Protection Agency, Region 6; Gordon Pierce, Air Pollution Control Division, Colorado Dept. of Public Health and Environment; Mark Jones, New Mexico Environment Department, Air Quality Bureau; Winfield G. Wright, Certified Professional Hydrologist, Southwest Hydro-Logic; Terry Hertel, New Mexico Environment Department, Air Quality Bureau

#### **Items of Discussion**

##### **Pollution Roses**

Gordon Pierce created four variants of a wind rose of annual data (2005) for Mesa Verde to see which variant folks preferred. The variants were overlaid on a map of the Four Corners area. The initial consensus was to use the colored wind rose, although someone later pointed out that the “black and white” plots did not obscure town/city locations as the colored plot did.

The question was posed regarding whether the wind rose depicted wind blowing away from the center or towards the center. The wind rose show winds blowing towards the center. This will also be the case with pollution roses also. The pollution roses will be for parameters having hourly data; specifically ozone, some nitric oxide, sulfur dioxide, and carbon monoxide. Wind roses cannot be generated for VOC’s due to no hourly data.

Seasons and times of day for pollution rose development will be selected depending on the pollutant. (Refer to call notes of 09/18/06)

Terry passed on Ted’s concern of the general public not being able to interpret the roses. It was decided that an explanation or key to the roses will be included in the report.

Koren asked how these roses would be used. Pollution roses for all sites having hourly data for criteria pollutants and for wind will be plotted and overlain on a map of the Four Corners area. The intent is that, with multiple roses for each pollutant overlain on a map of the area, an estimation of each pollutant’s impact and influence can be ascertained.

Eric Janes asked about the difference between the “red stars” and the “blue stars” that were shown on the map. The blue were sites with 2-meter towers, while the red were sites with 10-meter towers. Gordon stated that only the 10-meter sites would be used for rose generation.

## **Monitoring Matrix**

The revised matrix was discussed.

The first question addressed the lack of a legend to explain the different notations within the cells of the spreadsheet. Terry acknowledged the oversight, and will incorporate a legend.

A narrative for the matrix was also discussed. The narrative will explain the format of the matrix spreadsheet and will provide background information regarding the various parameters listed. The narrative will also address the power plant stack requirements that had been referenced in the spreadsheet.

The issue of how to denote a site as being part of more than one sampling program was addressed. The consensus was that instead of having one row per program, the row for the site would be wide enough to list all programs involved.

Mark reminded us that the matrix needs to be formatted to fit on one page. This is the case for the Word document that is on the website now (at least the main sections of the matrix are on sequential pages), so the revised matrix will take the same form.

Column headers now have letters of various colors. Mark noted that this would not be conducive for black and white printing. It was suggested that these headers have letters of different format instead of different color.

The question was posed as to whether or not only currently operating sites should be listed in the matrix. Koren suggested a column showing “period of record” for the various sites.

Eric suggested having some additional columns showing distances from listed sites to other towns in the area. It was also suggested that the distance columns be on all pages of the matrix.

When the subject of having products for posting on January 3<sup>rd</sup>, Gordon suggested that we opt for finalized pollution roses and matrix for the next meeting.

Mark suggested that the monitoring group have some sort of presentation for the next meeting.

## **Report Outline**

Work in progress; too soon for outline.

Koren expressed a desire to see a more detailed work plan.

## **Mitigation Options**

A platform was developing for the monitoring group to embark on writing our own mitigation options. Sylvia, Mark Sather, and Gordon explained why this should not be

the case. Monitoring will have **recommendations** for additional monitoring when we have completed the matrix and pollution roses, as well as various trend analyses.

Koren expressed a desire to include recommendations for mercury, sulfur, and nitrogen monitoring.

**Action Items**

Revised Matrix and Draft of Narrative – 01/03/07  
Pollution Rose / Map Overlay – February Meeting

**Next Call**

Next call will be January 16 at 2:00 PM.

**Adjourn**

Call was ended at 3:17 PM.